

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51906 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 8 2015

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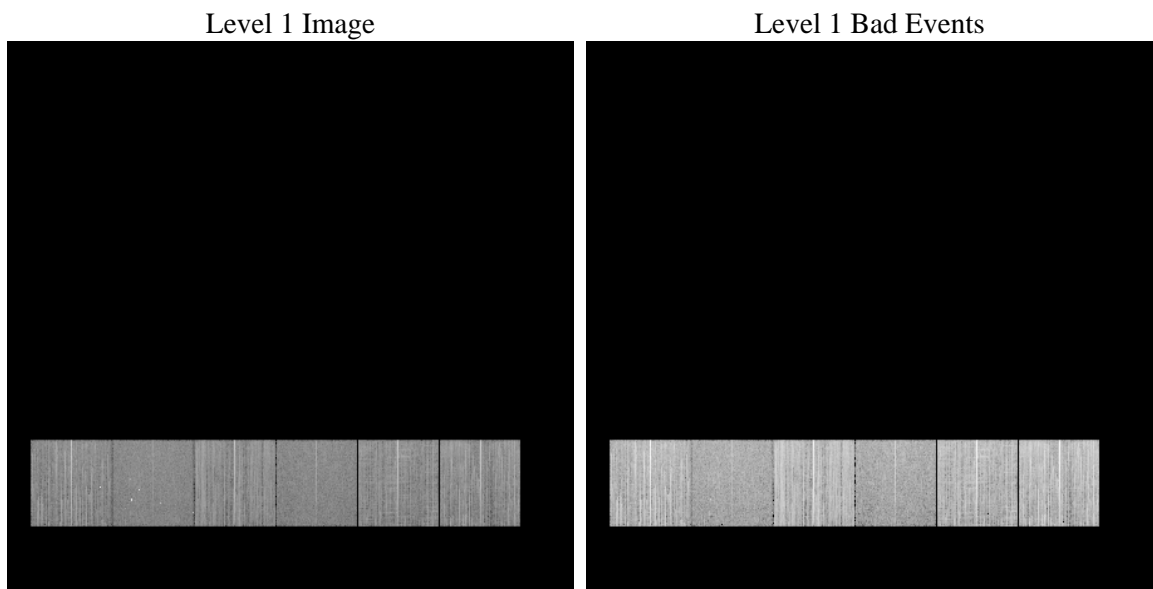
# 1 Front

seq_num	&#160	Sequence number
obs_id	51906	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	221.03458136663	Nominal RA [deg]
dec_nom	-40.98771828951	Nominal Dec [deg]
roll_nom	352.35782035065	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8252.8001229763	Sum of GTIs [s]
livetime	8148.2981985795	Livetime [s]
ontime4	8252.8001229763	Sum of GTIs [s]
ontime5	8252.8001229763	Sum of GTIs [s]
ontime6	8252.8001229763	Sum of GTIs [s]
ontime7	8252.8001229763	Sum of GTIs [s]
ontime8	8252.8001229763	Sum of GTIs [s]
ontime9	8249.5590326786	Sum of GTIs [s]
l2events	167563	Number of level 2 events

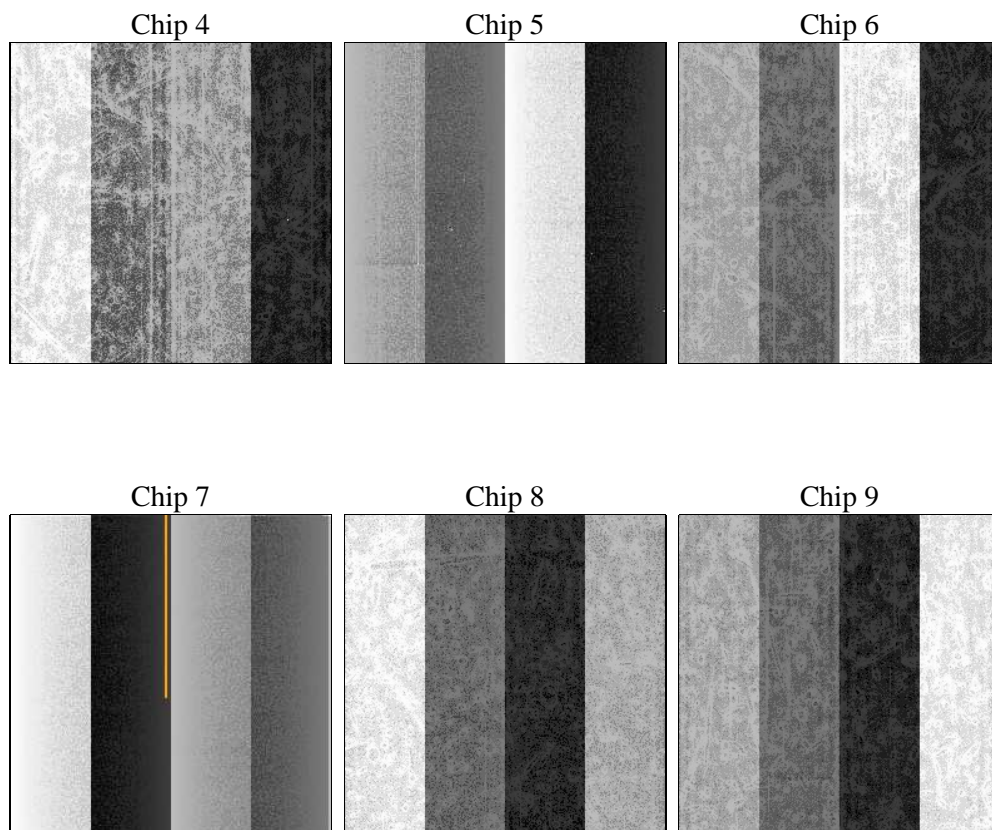
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	8252.8001229763	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime4	8252.8001229763	Sum of GTIs [s]
date	2015-05-08T17:16:58	Date and time of file creation	ontime5	8252.8001229763	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8252.8001229763	Sum of GTIs [s]
			ontime7	8252.8001229763	Sum of GTIs [s]
			ontime8	8252.8001229763	Sum of GTIs [s]
			ontime9	8249.5590326786	Sum of GTIs [s]
			l1events	791983	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	136182	114190	143875	107421	139399	150916	grade 0 events	13142	5147	9125	5244	12352	9759
rejected events	112616	64941	122323	63660	109981	129623		9%	4%	6%	4%	8%	6%
rejected %	82%	56%	85%	59%	78%	85%	grade 1 events	101	212	37	78	83	54
								0%	0%	0%	0%	0%	0%
							grade 2 events	4335	17569	5617	10809	6720	4788
								3%	15%	3%	10%	4%	3%
							grade 3 events	1560	1390	1260	3170	2212	1422
								1%	1%	0%	2%	1%	0%
							grade 4 events	1531	1368	1269	3109	2222	1450
								1%	1%	0%	2%	1%	0%
							grade 5 events	2906	4810	2508	6328	3461	3000
								2%	4%	1%	5%	2%	1%
							grade 6 events	2998	23775	4281	21429	5912	3874
								2%	20%	2%	19%	4%	2%
							grade 7 events	109609	59919	119778	57254	106437	126569
								80%	52%	83%	53%	76%	83%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	221.0345813666322	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-40.98771828951023	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	352.3578203506536	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	547422614.802731	547422613.77773			
Observation start date	2015-05-07T21:50:15	2015-05-07T21:50:13			
[s] Observation end time (MET)	547433221.5033261	547433220.47833			
Observation end date	2015-05-08T00:47:02	2015-05-08T00:47:00			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2528001229763

### A.2 Comments